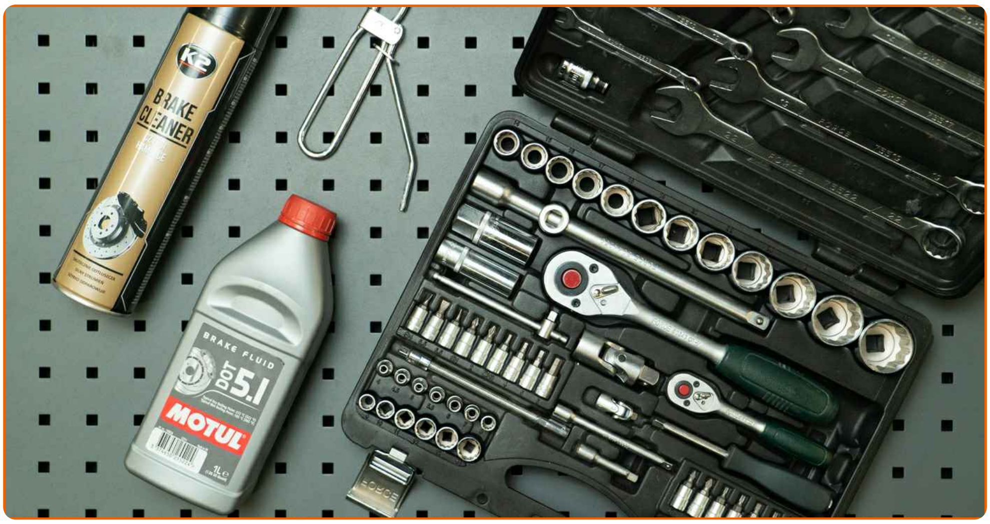
AUTODOC CLUB

How to change brake caliper on a car – replacement tutorial

VIDEO TUTORIAL



PREPARE THE EQUIPMENT:



- a set of suitable tools
- brake cleaner
- the brake fluid recommended by the car manufacturer
- a clamp for the brake hose or for its fitting
- a brake bleeder
- jack
- a jack stand
- a wheel chock

BUY TOOLS

Possible reasons to replace the brake caliper:

- mechanical damage
- brake system overheating
- corrosion
- failure to replace the brake fluid in time

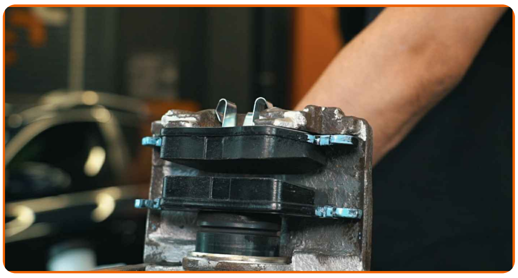
1 When you press the brake pedal, the piston rod of the master brake cylinder is pressed in



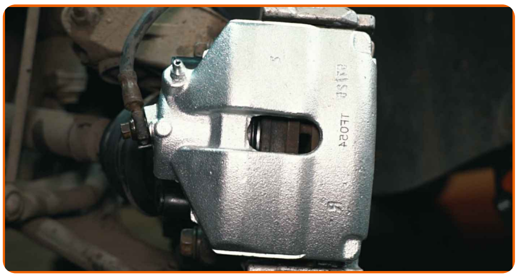
2 The brake fluid is supplied to the caliper and acts on its piston



3 The piston presses the brake pads against the disc



4 As a result, braking occurs



5 Corrosion may hinder the piston movement, and even cause it to seize up



6 It can also be damaged as a result of destruction of the seal



Please note!

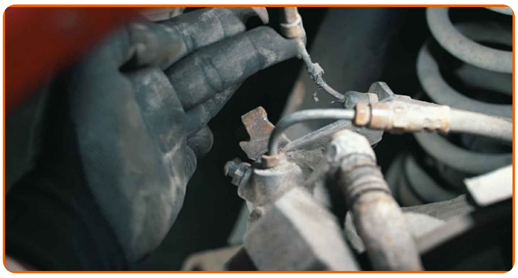
- The principle of operation and replacement of most brake calipers is identical

7 Rear calipers may have a parking brake



8

Its cable or wiring should be disconnected when replacing the caliper



9

When replacing a caliper, it may be necessary to install a new bracket and guide pins if they are worn



AUTODOC recommends:

- Pay attention to the brake caliper installation side

10

The bleeder screw has to be located at the top



11

Access the brake fluid reservoir and check the fluid level



12 Clean the cap and the outside of the reservoir



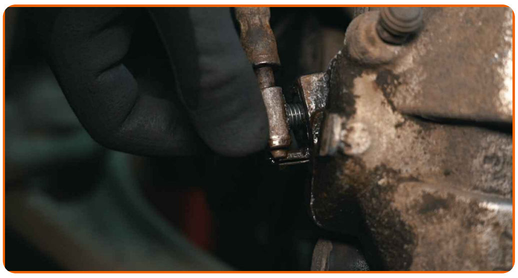
13 Have a look at the brake caliper design



14 Disconnect the brake hose fitting



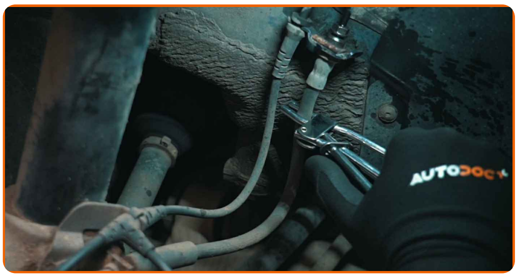
15 Clean the area where it connects beforehand



Be careful!

- Prevent brake fluid from leaking

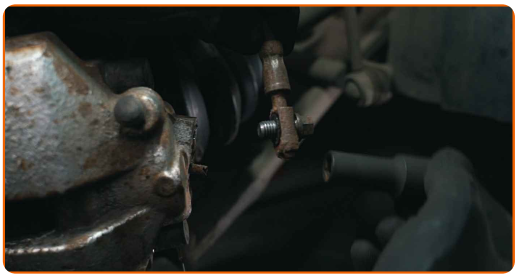
16 Clamp the brake hose with a special tool or unscrew the fitting fastener and use a clamp



17 Fix the clamp on the hose at a right angle



18 Move the brake hose aside



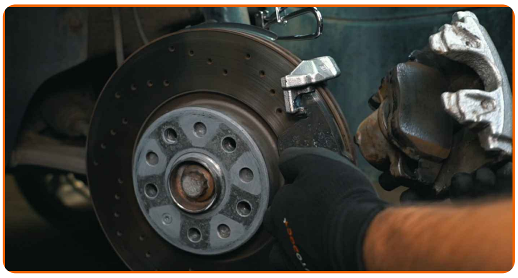
19 Unscrew and disconnect the brake caliper fasteners



Please note!

- If the caliper is difficult to remove,

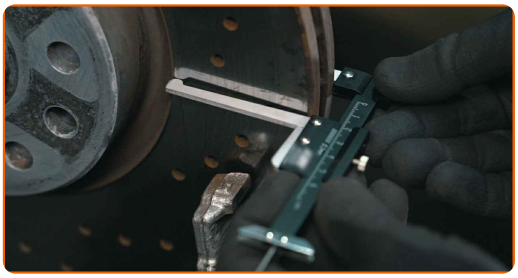
20 Remove the brake caliper



21 Incorrect brake caliper operation results in quick and uneven wear of the brake pads and disc



22 Check their condition regularly to detect caliper failure in good time



23 Replace any worn parts if necessary



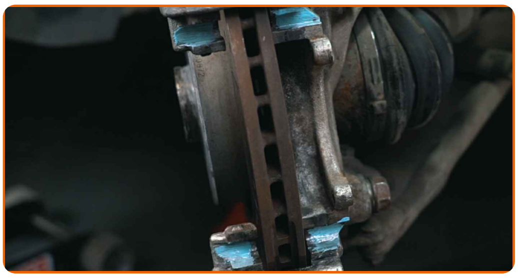
24 Read the manufacturer's instructions before installing a new brake caliper



25 Inspect and, if necessary, replace the brake caliper retaining springs and brake pad anti-rattle clips



26 Reassemble in reverse order



27 Install the brake pads



28 Install a new brake caliper



Important!

- Make sure all the parts are in the correct position

29

Screw in the guide pins



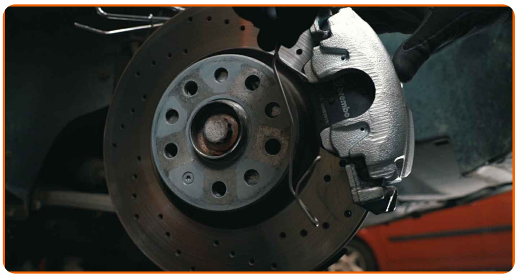
30

Tighten the fasteners to the torque recommended by the manufacturer



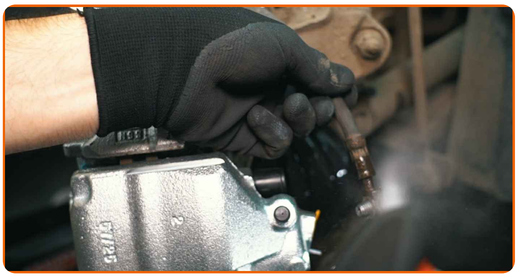
31

Install additional brake caliper retainers, if there are any



32

Clean and connect the brake hose



33

Tighten the fitting to the torque recommended by the manufacturer



34 Bleed the brake system



35 Remove the cap from the bleeder screw



36 Undo the bleeder screw and remove the hose clamp



37 As soon as the fluid starts to leak out, tighten the bleeder screw



38 Check and correct the brake fluid level on a regular basis



Please note!

- Do not loosen the bleeder screw excessively
- Prevent dirt and debris from getting into the reservoir

39 To bleed the system, you will need an assistant or special equipment



40 In the first case, the assistant presses the brake pedal several times until they feel significant resistance



41 Without releasing the pedal, the assistant lets you know that you can unscrew the bleeder screw



AUTODOC recommends:

- Prepare a container for the fluid in advance

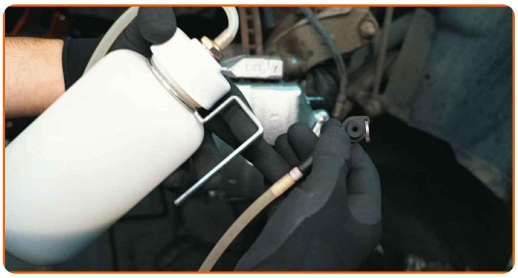
42 Undo the bleeder screw, drain the brake fluid, and tighten the screw again



43 Repeat the procedure until all air is purged from the brake system



44 In the second case, prepare a brake bleeder consisting of a container with a hose, a fitting, and a check valve



45 Connect this device to the bleeder screw on the caliper and loosen the screw slightly



46 Press the brake pedal several times



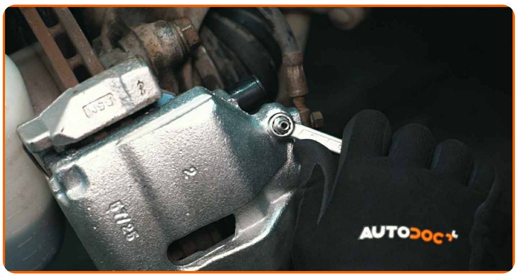
AUTODOC recommends:

- Repeat the procedure until all air is purged from the brake system

47 Make sure that the fluid that passes through the hose is free of air



48 Tighten the bleeder screw



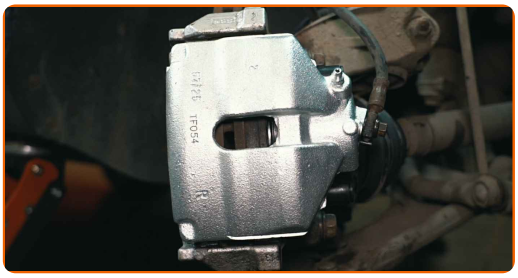
49 Clean the bleeder screw



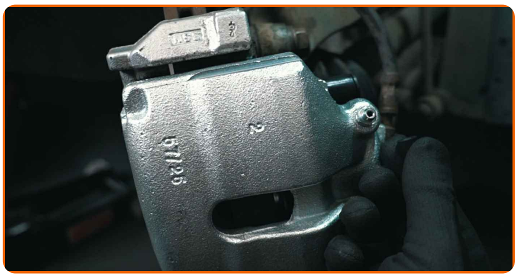
50 Tighten the bleeder screw to the torque recommended by the manufacturer



51 Press the brake pedal several times to check for leaks



52 Put the protective cap on the bleeder screw



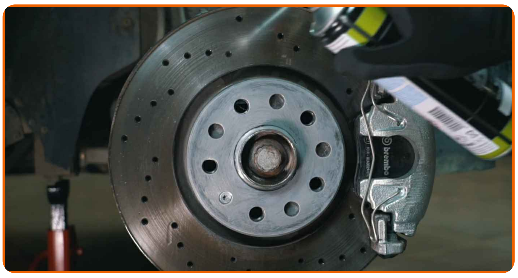
53 Clean the surfaces of the brake disc and the wheel hub that are in contact with the mating surface of the wheel rim



54 Treat the surfaces with an anti-corrosion agent



55 Clean the brake disk surface



56

Check the brake fluid level in the expansion tank and refill if necessary

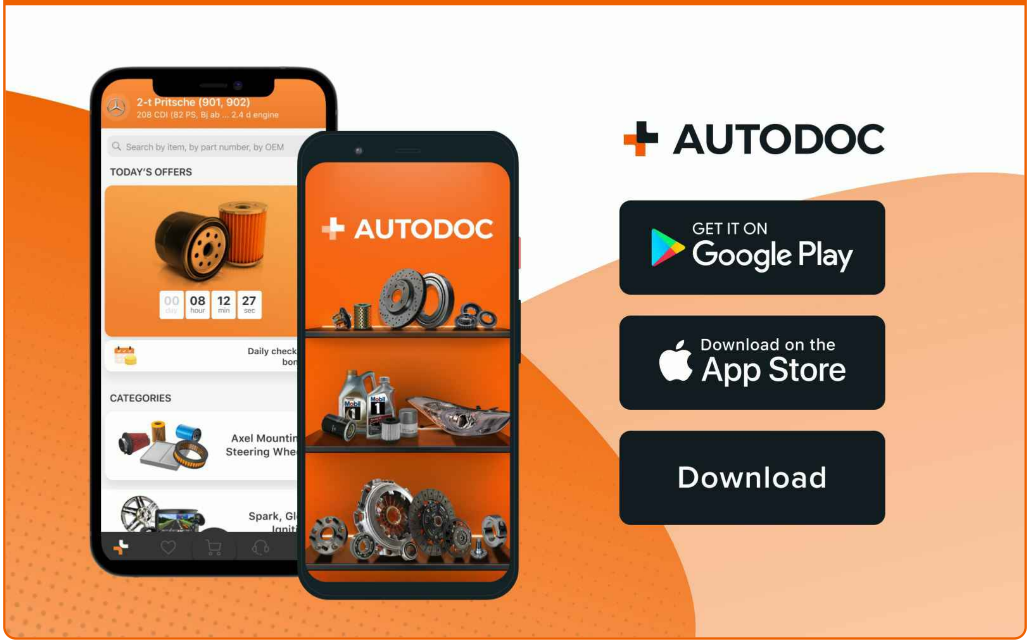


AUTODOC recommends:

- Change the brake fluid if necessary

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BRAKE CALIPER: A WIDE SELECTION

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